

Current Score: 0/17

Question	1	2	3	4	5	6	7	8	Total
Points	0/1	0/1	0/1	0/1	0/1	0/3	0/3	0/6	0/17

1. 0/1 points

SPreCalc7 1.9.036.MI. [3267469]

In this exercise we use the Distance Formula.

Which of the points $C(-6, 3)$ or $D(3, 2)$ is closer to the point $E(-2, 1)$?

- Point C is closer to point E .
- Point D is closer to point E .
- Points C and D are the same distance from point E .

2. 0/1 points

SPreCalc7 1.9.045.MI. [3267538]

In this exercise we use the Distance Formula.

Find a point on the y -axis that is equidistant from the points $(4, -4)$ and $(2, 2)$.

$(x, y) = ($ $)$

3. 0/1 points

SPreCalc7 1.9.089.MI. [3213417]

Find an equation of the circle that satisfies the given conditions.

Center $(2, -5)$; radius 2

4. 0/1 points

SPreCalc7 1.9.092.MI. [3213272]

Find an equation of the circle that satisfies the given conditions.

Center $(-1, 5)$; passes through $(-9, -7)$

5. 0/1 points

SPreCalc7 1.9.093. [3213470]

Find an equation of the circle that satisfies the given conditions.

Endpoints of a diameter are $P(-2, 2)$ and $Q(6, 8)$

6. 0/3 points

SPreCalc7 1.9.099. [3260052]

Show that the equation represents a circle by rewriting it in standard form.

$$x^2 + y^2 + 4x - 8y + 19 = 0$$

Find the center and radius of the circle.

$$(x, y) = \left(\text{ } \right)$$

$$r = \text{ }$$

7. 0/3 points

SPreCalc7 1.9.103. [3213519]

Show that the equation represents a circle by rewriting it in standard form.

$$2x^2 + 2y^2 - 7x = 0$$

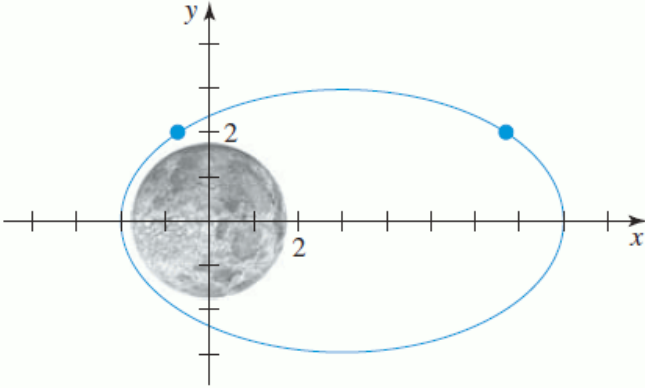
Find the center and radius of the circle.

$$(x, y) = \left(\text{ } \right)$$

$$r = \text{ }$$

8. 0/6 points

A satellite is in orbit around the moon. A coordinate plane containing the orbit is set up with the center of the moon at the origin, as shown in the graph, with distances measured in megameters (Mm).



The equation of the satellite's orbit is $\frac{(x-3)^2}{25} + \frac{y^2}{16} = 1$.

(a) From the graph, determine the closest and the farthest that the satellite gets to the center of the moon.

closest Mm
 farthest Mm

(b) There are two points in the orbit with y -coordinates 2. Find these points.

$(x, y) = \left(\text{input}, 2 \right)$ (smaller x -value)

$(x, y) = \left(\text{input}, 2 \right)$ (larger x -value)

Determine their distances to the center of the moon. (Round your answers to two decimal places.)

point with smaller x -value Mm
 point with larger x -value Mm

Assignment Details

Name (AID): **worksheet - week of Oct 2 (11430470)**
 Submissions Allowed: **10**
 Category: **Quiz**
 Code:
 Locked: **No**
 Author: **Watson, Stephen (watson@mathstat.yorku.ca)**
 Last Saved: **Oct 2, 2017 07:18 AM EDT**
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